

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
6 May 2005 (06.05.2005)

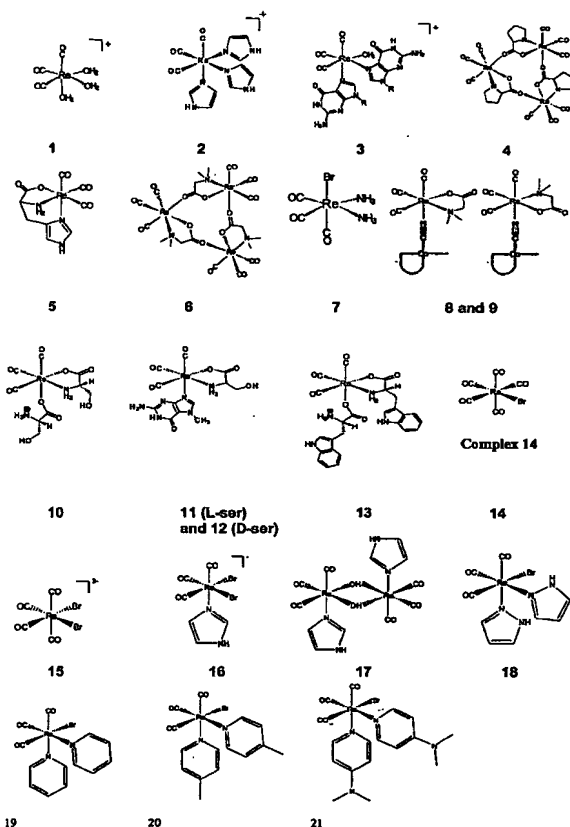
PCT

(10) International Publication Number  
**WO 2005/039648 A3**

- (51) International Patent Classification<sup>7</sup>: **A61K 51/04**, 51/08, A61P 35/00
- (21) International Application Number: **PCT/EP2004/011953**
- (22) International Filing Date: 20 October 2004 (20.10.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 03078086.0 20 October 2003 (20.10.2003) EP
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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

[Continued on next page]

(54) Title: **USE OF METAL TRICARBONYL COMPLEXES AS RADIOTHERAPEUTIC CHEMOTOXIC AGENTS**



(57) Abstract: The invention relates to the use of metal tricarbonyl compounds of the general formula  $[M(CO)_3L_n]$ , wherein M is rhenium or technetium or an isotope thereof and L is a ligand, for the preparation of a medicament for the treatment of cancer that is both radiotherapeutic and chemotoxic when a radioactive metal is used and chemotoxic when cold rhenium or macroscopic amounts of long-lived Tc-99 is used. The medicament is in particular chemotoxic by causing intrastrand linkages in DNA. In a specific embodiment at least one of L is not OH<sub>2</sub>. The invention further relates to novel compounds of the general formula  $IM(CO)_3X_1X_2X_3$  and their use, wherein M is rhenium or technetium or an isotope thereof and at least one of X<sub>1</sub>, X<sub>2</sub> and X<sub>3</sub> is a monodentate ligand; or two of X<sub>1</sub>, X<sub>2</sub> and X<sub>3</sub> are part of a bidentate ligand and the other one is optionally a monodentate ligand.



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:  
24 November 2005

**Published:**

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*